

Claims

What is claimed is:

1. In a vibration roller which has a travel lever on an operating portion operating forward, neutral, and reverse of the roller; and

a safety switch for preventing an operator from being caught between the roller and an obstacle when moving backward;

a safety device of the roller including:

a operation cable connecting the travel lever and a travel switching device, wherein a front end and a back end of an outer tube of the operation cable are supported on a side of the travel lever and on a side of the travel switching device respectively under a condition that the outer tube is bent, the back end of the outer tube is locked in front of the travel lever while the safety switch is not activated, and the back end of the outer tube is released and extended to a direction of the travel lever when the safety switch is activated.

2. The safety device of the roller claimed in claim 1, in which a locking mechanism which locks the back end of the outer tube into the operating portion comprises:

a turning plate, wherein a bottom of which is fixed axially in a front part in the operating portion so as to be pivotable forward and backward for the roller;

an oscillating plate fixed axially on both sides of a top of the turning plate under a condition that the back end of the outer tube is supported so as to be pivotable; and
a cam for locking the turning plate in locking position.

3. The safety device of the roller claimed in claim 1 or claim 2, wherein the cum of the locking mechanism is provided at a front end of the safety switch, a bottom of the cum is pulled backward by forces of a spring when the safety switch is not activated, and a top of the cum pushes and locks the turning plate for preventing the turning plate turning to a direction of the travel lever.

4. The safety device of the roller claimed in claim 1, claim 2 or claim 3; wherein a inclined concave-portion is provided on a back side of the turning plate contacted by the cum provided at the front end of the safety switch so that the turning plate can turn in a proper angle with touching the cam when a lock of the back end of the outer tube is released by turning of the turning plate.